



SDI Review Form 1.6

Journal Name:	Journal of Energy Research and Reviews
Manuscript Number:	Ms_JENRR_48387
Title of the Manuscript:	THE STUDY OF TERRESTRIAL SOLAR RADIATION IN AWKA USING MEASURED METEOROLOGICAL DATA
Type of the Article	ORIGINAL RESEARCH PAPERS

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>Eq. (7), the differential of Eq. (1) (and not 2 as stated in the text), is wrong. $dE/dT = (4\epsilon)\sigma T^3$ and not $(4+\epsilon)\sigma T^3$</p> <p>In Eq. (2) the units are not correct. Left-right mismatch: Emissivity ϵ is dimensionless, while water vapor pressure has unit Pa. In Eq. (8) the units are not correct. Left-right mismatch: Temperature T has unit kelvin while enission E has unit W/m^2. Because of these things, the calculations and reasoning cannot be checked and I would like to see the authors work on making the document mathematically sound before resubmitting it. I stopped reading after Eq. 8</p>	<p>Actually I have corrected it. It is differential of Eq 3 not 2 as stated ealier. Eq8 is corrected to reflect $dE = 27.086dT + 2.699de$</p>
Minor REVISION comments	<p>"Terrestrial solar radiation" is a wrong name. Radiation cannot be terrestrial and solar at the same time. The reference the authors use (1) hints at that they want to say "outgoing longwave radiation (OLR)" instead</p> <p>units are not written in capitals. (thus "kelvin", "watt", etc.) Variables and parameters are written in <i>italics</i>. Unit of σ is $Wm^{-2}K^{-4}$</p>	<p>I have effected corrections where necessary.</p>
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	